

CLAIMS

1. A liquid delivery device, comprising:
a flow channel for flowing a liquid,
at least two pressure-generating means for generating
5 pressures provided in the flow channel, and
a variable member placed between the pressure-
generating means and capable of transforming between
a first stable state and a second stable state by a
generated pressure;
10 the device serving to select a branch of the flow
channel by transforming the variable member into the
first stable state or the second stable state.
2. The liquid delivery device according to
15 claim 1, wherein the variable member is comprised of
a flexible resin film.
3. The liquid delivery device according to
claim 2, wherein the variable member is comprised of
20 plural flexible resin films linked in tern.
4. The liquid delivery device according to
claim 1, wherein the variable member is comprised of
an arch-shaped elastic body, and expandable elastic
25 bodies placed on both ends of the arch-shaped elastic
body.

5. The liquid delivery device according to claim 1, wherein the device comprises further a magnetic field-generating means for generating a magnetic field, and the variable member has a means
5 for promoting transformation between the first stable state and the second stable state by the generated magnetic field.

6. The liquid delivery device according to
10 claim 1, wherein the flow channel is comprised of a first flow channel branch and a second flow channel branch provided with the pressure generating means, and a third flow channel branch is connected to the first flow channel branch and the second flow channel
15 branch, and either the first flow path branch or the second flow channel branch is closed by the variable member.

7. The liquid delivery device according to
20 claim 1, wherein the device comprises further a waste liquid reservoir for receiving a waste liquid from the flow channel, and the waste liquid is introduced into the waste liquid reservoir by selecting the stable state of the variable member.

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8. The liquid delivery device according to claim 7, wherein the device comprises further an

analysis column for analyzing the liquid, and a
pressurizing liquid terminal for introducing the
liquid into the analysis column, and the liquid is
introduced either into the waste liquid reservoir or
5 into the analysis column by selecting the stable
state of the variable member.

9. The liquid delivery device according to
claim 1, wherein the pressure-generating means is a
10 heater, and the flow channel branch is changed over
by growth and contraction of a bubble formed by the
heater.

10. A valve for changeover of flow channel
15 branches, comprising a variable member, said variable
member being placed between pressure-generating means
for generating a pressure provided in the flow
channel such that the variable member is
transformable between a first stable state and a
20 second stable state by the generated pressure.